From ideas to the construction market

Open innovation and collaborative working tapping National and European funding at NOBATEK

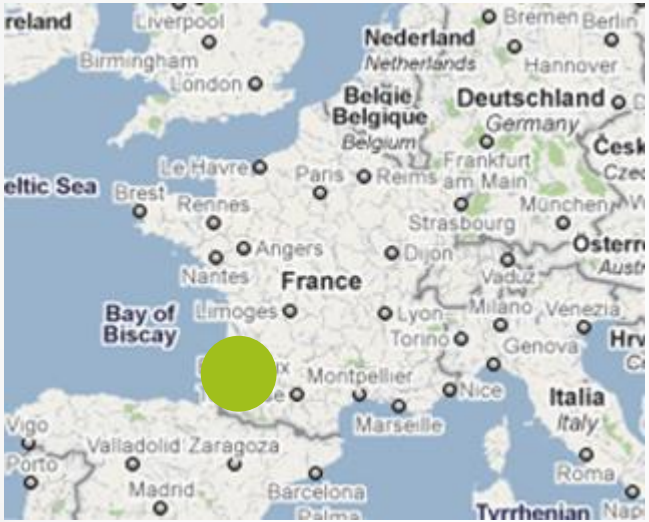
Sustainable Places 2016

@ Anglet, France

Germain Adell

nobatek

A private non profit technology centre



Two locations:

- Headquarters in Anglet (Basque Country)
  > 30 people
- Office in Bordeaux University Campus
  > 20 people

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Our model

RESEARCH

EXPERTISE for the market

TECHNOLOGY assets

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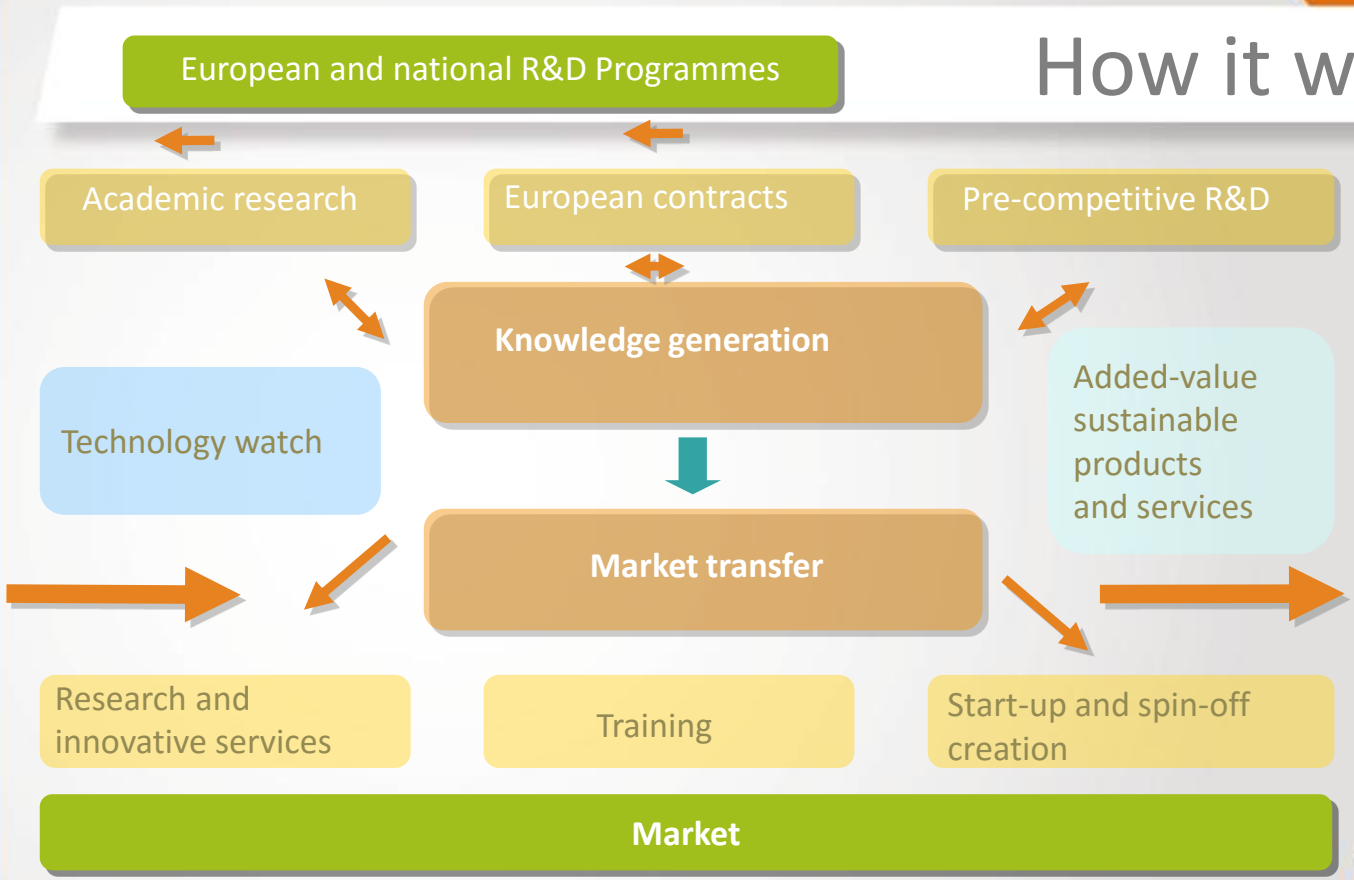
How it works…


European and national R&D Programmes
Academic research
European contracts
Pre-competitive R&D
Knowledge generation
Technology watch
Added-value sustainable products and services
Market transfer
Research and innovative services
Training
Start-up and spin-off creation
Market

Scales of intervention

MATERIALS

BUILDINGS

- Building owners
- Local governments
- Architects & planners
- Industrials

Environmental quality

TERRITORY

Energy efficiency

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3 Departments and typical clients

Innovation for Sustainable Architecture & Urban Planning	ARCHITECTS & PLANNERS
Sustainable Building Technologies	INDUSTRIALS & TECHNOLOGY DEVELOPERS
Energy & Environmental Efficiency	BUILDING OWNERS & MANAGERS

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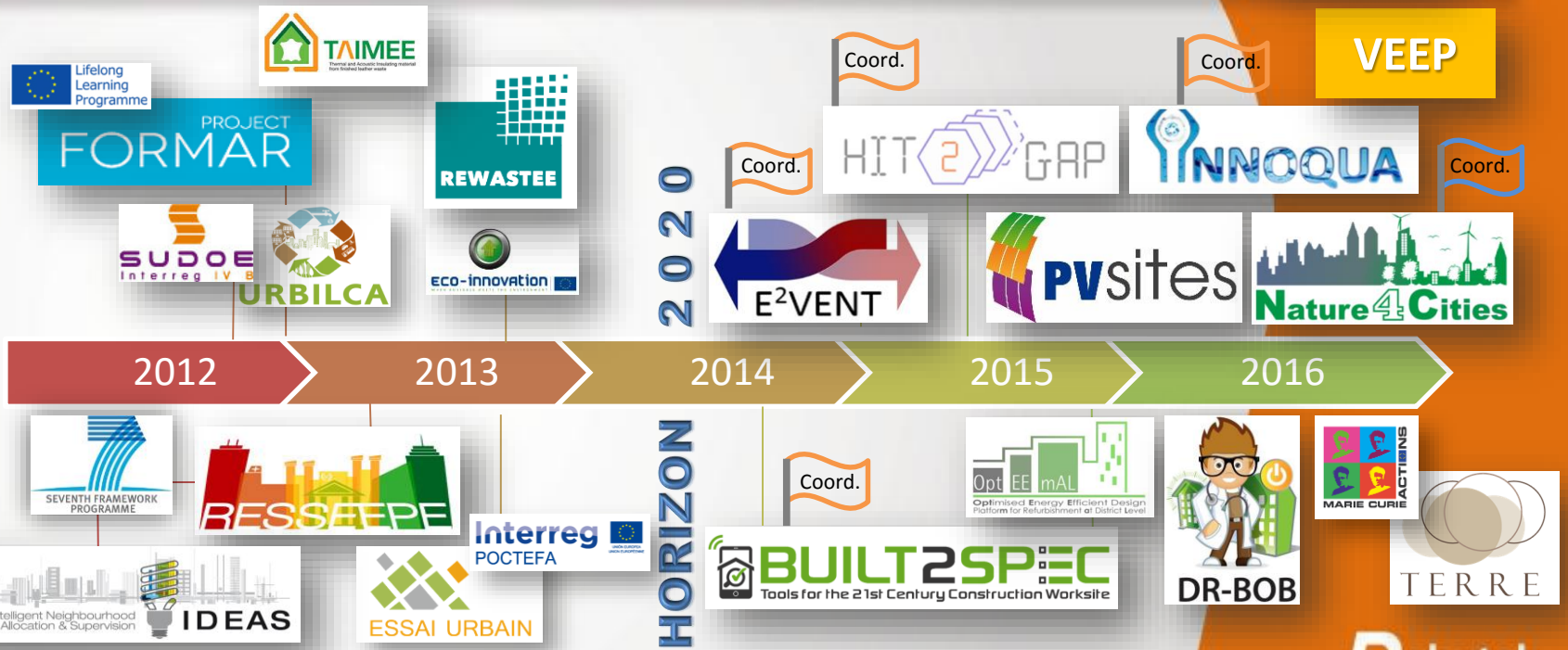
Main EU funded projects timescale



13 ongoing projects (5 in coordination) / French leadership in H2020 for the sector

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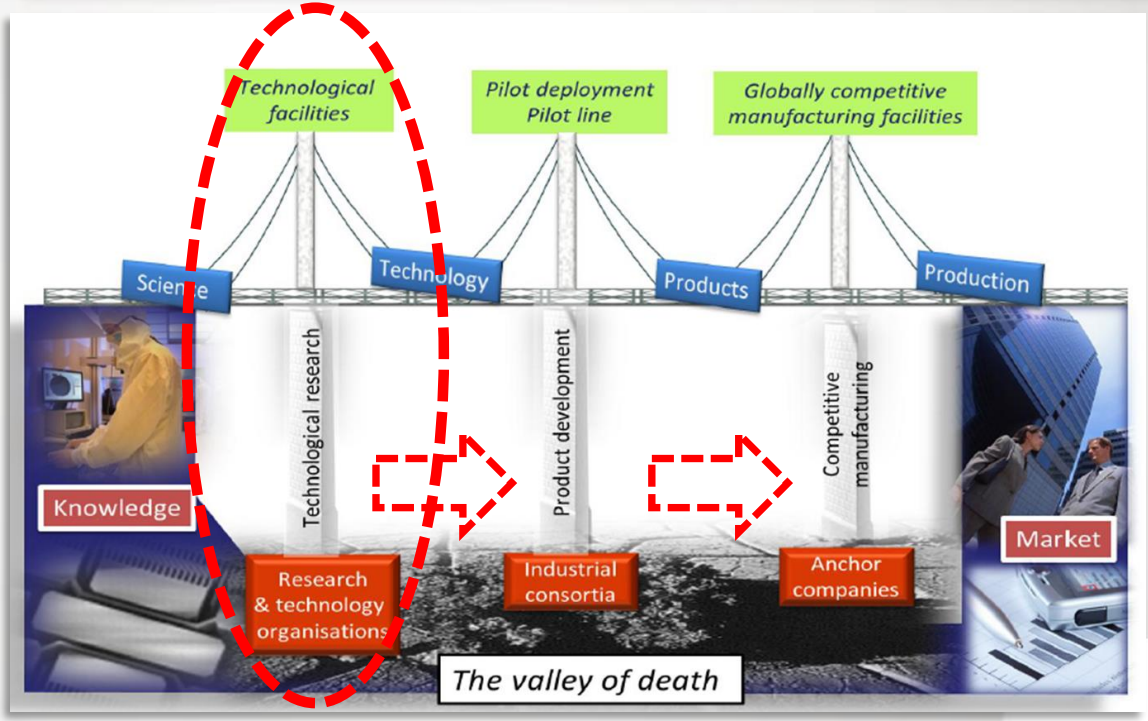
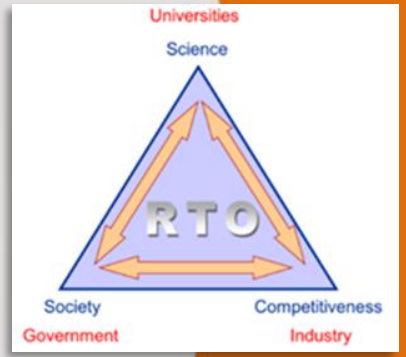
What we do as an RTO





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The way from idea to the market…

2008 → 2010 → 2012

Initial works @ I2M lab

I2M BORDEAUX

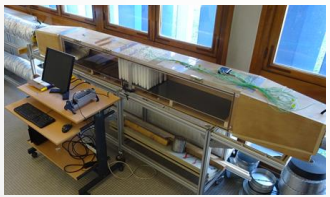
PCM for air cooling
→PhD S. Ekomy Ango

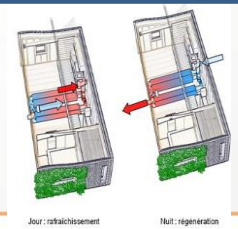
Integration in the Solar Decathlon prototype

napevomo?

Improvement of the heat exchanger and thermal model →PhD F. Rouault

TRL improvement from 1 to 4-5





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Two complementary paths…

2014-15

PPAM / MCPFlex : New heat exchanger design. Patent application

INEF4 INSTITUT POUR LA TRANSITION ENERGETIQUE

I2M BORDEAUX

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tecnalia Inspiring Business

2015-18

EeB H2020 project Integration of the system in a ventilated façade

HORIZON 2020

E2VENT

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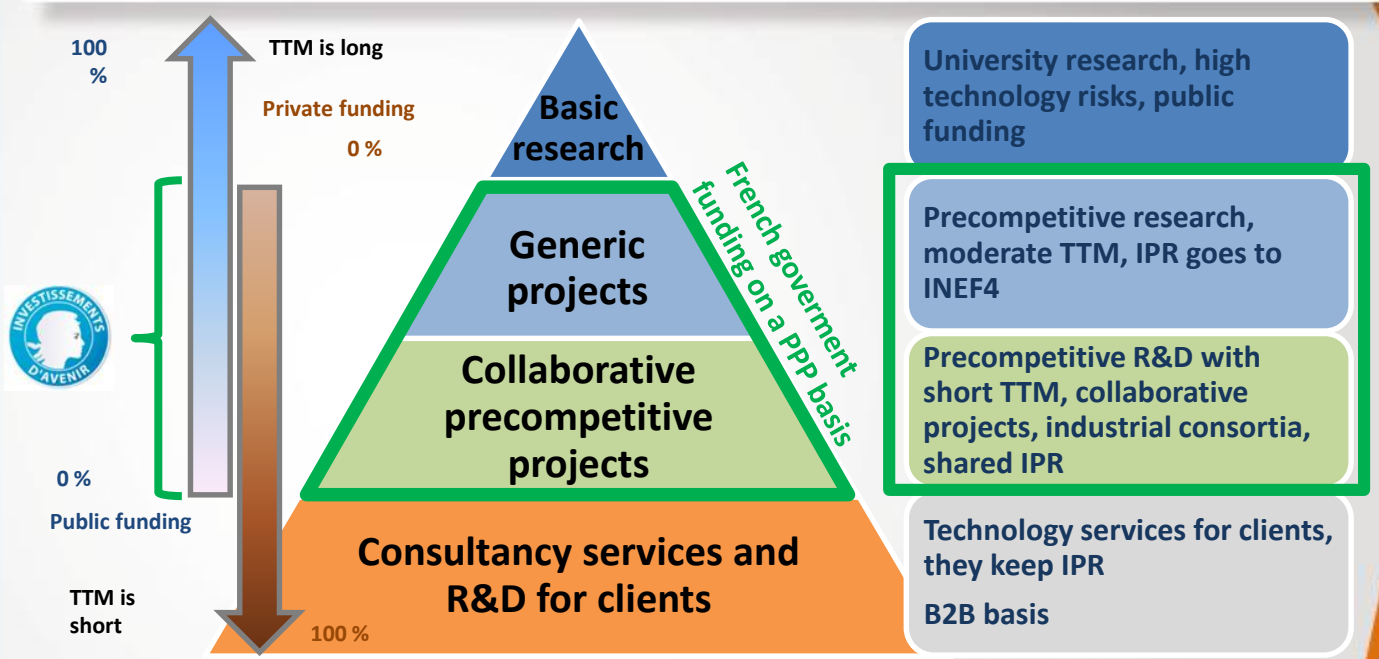
INEF4 RDI PPP funding model

INEF4 INSTITUT POUR LA TRANSITION ENERGETIQUE



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E2VENT project in a nutshell

Budget: 3,4 M €

Smart modular heat recovery units which improves Indoor Air Quality while minimizing energy losses

A latent system using PCM that allows thermal storage mode for the reduction of energy peaks

A smart building management system enhancing the user experience and allowing future adaptability

Cost-effective, easy to install, high performance adapted products for external thermal insulation

HORIZON 2020

Topic: H2020 EeB.2014-02 : Adaptable envelopes integrated in building refurbishment projects

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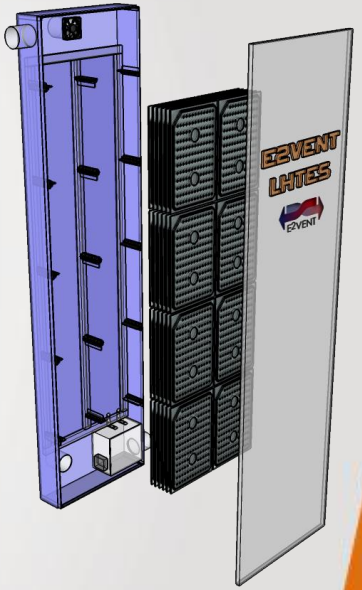
E2VENT: where we are now…



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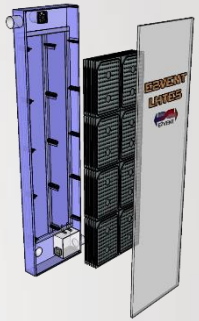
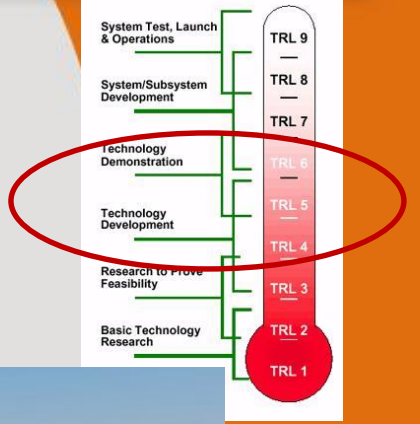
The façade test bench @ Nobatek

E2VENT: using the test bench

2016

TRL improvement from 4 to 6





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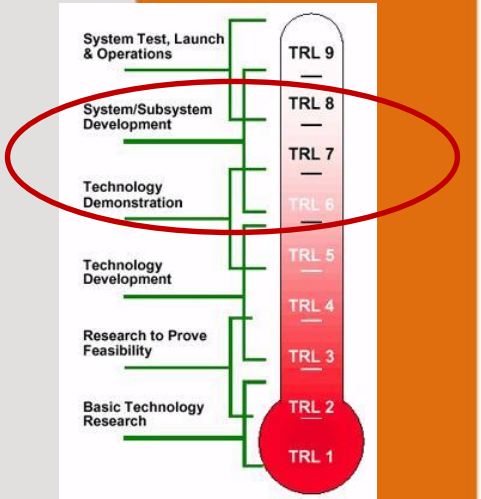
E2VENT pilot sites

2017

TRL improvement from 6 to 8

Gdansk, Poland

Burgos, Spain



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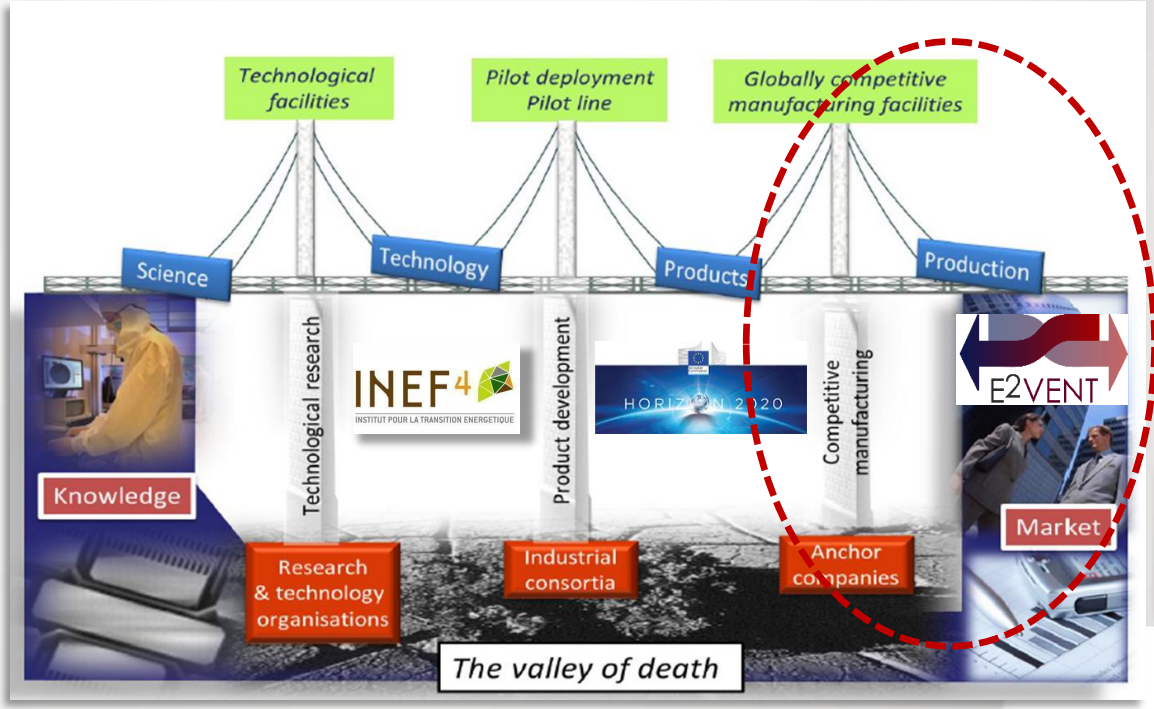
The future is the market…



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ARISTOTLE UNIVERSITY OF THESSALONIKI EUROPEAN ALUMINIUM CARTIF ELVAL UNIVERSITY OF Hull

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